

M.Sc. I (Zoology) (C.B.C.S. Pattern) Sem-I  
**PSCZOOT02 - Paper-II: General Physiology**

P. Pages : 1

Time : Three Hours



**GUG/S/19/11176**

Max. Marks : 80

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- Notes :
1. All questions are compulsory.
  2. All questions carry equal marks.
  3. Draw well labelled diagram wherever necessary.

**1. Explain the mechanism of Neurotransmitter in detail. 16**

**OR**

Write notes on:

- a) Chromatophores- structure, and significance. 8
- b) Classification of enzymes. 8

**2. Explain in detail, Thermoregulation on Poikilotherms and Homeotherms. 16**

**OR**

Write notes on:

- a) Explain Bioluminescence in invertebrates. 8
- b) Osmoregulation in Amphibia. 8

**3. Give an account of digestion and absorption of protein and Lipids in the Gastrointestinal Tract. 16**

**OR**

Write notes on:

- a) Electron Transport System. 8
- b) Cardiac Cycle. 8

**4. Give an account on Environmental stress and strain. 16**

**OR**

Write notes on:

- a) Water Electrolyte Balance. 8
- b) Reflex action. 8

**5. Attempt the following. 16**

- a) Structure of Hemoglobin.
- b) Signal Transduction.
- c) Transamination.
- d) C.S.F.

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